

ZNHIT1 (E-18): sc-244822



The Power to Question

BACKGROUND

ZNHIT1 (zinc finger, HIT-type containing 1), also known as CG11 (cyclin-G₁-binding protein 1), p18 hamlet or ZNFN4A1 (zinc-finger protein subfamily 4A member 1), is a 154 amino acid protein that plays a role in the induction of p53-mediated apoptosis. A member of the ZNHIT1 family, ZNHIT1 contains one HIT-type zinc finger and interacts with p38. ZNHIT1 undergoes post-translational phosphorylation and is encoded by a gene that maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance.

REFERENCES

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3. Cai, Y., et al. 2005. The mammalian YL1 protein is a shared subunit of the TRRAP/TIP60 histone acetyltransferase and SRCAP complexes. *J. Biol. Chem.* 280: 13665-13670.
4. Reiner, O., et al. 2006. Lissencephaly 1 linking to multiple diseases: mental retardation, neurodegeneration, schizophrenia, male sterility, and more. *Neuromolecular Med.* 8: 547-565.
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6. Sjöblom, T., et al. 2006. The consensus coding sequences of human breast and colorectal cancers. *Science* 314: 268-274.
7. Lafarga, V., et al. 2007. p18(Hamlet) mediates different p53-dependent responses to DNA-damage inducing agents. *Cell Cycle* 6: 2319-2322.
8. Cuadrado, A., et al. 2007. A new p38 MAP kinase-regulated transcriptional coactivator that stimulates p53-dependent apoptosis. *EMBO J.* 26: 2115-2126.

CHROMOSOMAL LOCATION

Genetic locus: ZNHIT1 (human) mapping to 7q22.1; Znhit1 (mouse) mapping to 5 G2.

SOURCE

ZNHIT1 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNHIT1 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244822 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNHIT1 (E-18) is recommended for detection of ZNHIT1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with ZNHIT2, ZNHIT3 or ZNHIT6.

ZNHIT1 (E-18) is also recommended for detection of ZNHIT1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ZNHIT1 siRNA (h): sc-89847, ZNHIT1 siRNA (m): sc-155809, ZNHIT1 shRNA Plasmid (h): sc-89847-SH, ZNHIT1 shRNA Plasmid (m): sc-155809-SH, ZNHIT1 shRNA (h) Lentiviral Particles: sc-89847-V and ZNHIT1 shRNA (m) Lentiviral Particles: sc-155809-V.

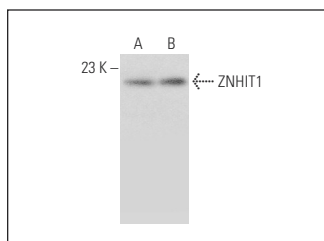
Molecular Weight of ZNHIT1: 18 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZNHIT1 (E-18): sc-244822. Western blot analysis of ZNHIT1 expression in Jurkat (A) and Hep G2 (B) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.